

UNITED STATES GOVERNMENT

Memorandum

TO : The Files: Contract No. 3786-3120-5

EP 66-103
DATE: 5 May 1966

FROM : Mr. [REDACTED] 25X1A9a

SUBJECT: Inspection Report No. 7 - [REDACTED] 25X1A5a1

1. Project Description:

The AC-3 is an HF antenna coupler which provides an impedance range of 35 to 1200 ohms resistance and 0 to \pm J1200 ohms reactance and a transmission line of $50 \pm j0$ ohms impedance. The AC-3 is manually operated and provides the impedance match over the 3 to 30 Mc/s range with a VSWR of less than 2:1 while handling 400 watts of continuous RF power. The AC-3 can measure and monitor the forward and reflected power (and hence the VSWR) in the transmission line, and contains a protective circuit which deenergizes the transmitter when a preset level of reflected power is exceeded due to mistuning or malfunction. An internal 50 ohm dummy load (over 3 to 30 Mc/s) is included to permit matching of the transmitter. Primary power to operate the AC-3 is 120/240 ($\pm 10\%$), 50/60 cps, AC mains.

2. Contractual Information:

- a. Initial Cost: \$112,200.00 Increase in Scope: \$18,500.00
- b. Request for Procurement Action: 1 March 1965
- c. Initiation Date: 29 March 1965
- d. Completion Date: One modified AC-3 - 1 September 1965; two preproduction AC-3's - April 1966; ninety-eight AC-3's - July 1966
- e. Deliverable Items: One hundred AC-3's w/spares and accessories, updated engineering drawings.

3. Date of Meeting: 14 April 1966

4. Place of Meeting: Chicago, Illinois

5. Persons Attending:

Agency

Non-Agency

25X1A9a Mr. [REDACTED]

Mr. [REDACTED]

25X1A5a1



6. Contractor's Performance:

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6. Contractor's Performance:

- a. On schedule and expected to remain so: No
- b. Within obligated funds and expected to remain so: Yes
- c. Satisfactory technical progress: Yes

7. Project Status:

An assembled AC-3 external case was exhibited to demonstrate external styling of the unit. The shadow molding is a part of the dust cover and approximates the appearance of [REDACTED] equipment. 25X1A6a
The cuts were in the front panel to indicate position of the various controls, meter, lights, counters, etc. The revised method of rack mounting the AC-3 in the adapter panel was described. An engineering drawing detailing the panel is available in EP.

25X1A6a About 75% of the required parts to build two preproduction units are available at [REDACTED]. Long lead items are the dummy load (current estimated delivery date unavailable), gears (June), shafts for gear trains (June), etc. The ceramic drums from the [REDACTED] Company previously scheduled for delivery on 28 March have been rescheduled for late May. As a result, [REDACTED], is having two drums handmade at a cost of \$190 vs. \$37 for the ones being purchased in lots of 100.

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The iron cores will be molded by a Pennsylvania firm to a spec established by [REDACTED]. A pilot run of ten is being run prior to molding the balance of 90. Mr. [REDACTED] planned to visit the firm on the 18th of April to establish the test parameters and insure compatibility with [REDACTED] incoming test inspection department.

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Initial quantities of PC boards. . . .

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GROUP 1
Excluded from automatic
downgrading and
declassification

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Initial quantities of PC boards have been assembled and about 50% of the metal work is complete. Unless a "DX" procurement priority with a high enough rating can be established, the preproduction units will not be available until mid-June at the earliest.

[REDACTED] 25X1A9a

Distribution:

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25X1A9a c-E/R&D-EP/[REDACTED]t/bjp
5/9/66

(5 May 1966)

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